

Atlantic Richfield Company

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March 7, 2014

CERTIFIED – RETURN RECEIPT REQUESTED

Ms. Jere Johnson
Remedial Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne Street, SFD-9-1
San Francisco, CA 94105

Subject: February 2014 Monthly Report, Yerington Mine Site, Lyon County, Nevada: Administrative Order for Remedial Investigation and Feasibility Study (RI/FS), CERCLA Docket No. 9-2007-0005; Administrative Order on Consent, CERCLA Docket No. 09-2009-0010

Dear Ms. Johnson:

Pursuant to the above referenced orders issued by the U.S. Environmental Protection Agency - Region 9 (EPA), Atlantic Richfield Company (ARC) has prepared this February 2014 monthly report for RI/FS and Operations and Maintenance (O&M) activities at the Yerington Mine Site (Site).

February 2014 Activities

Site Security and O&M Activities

- Continued Site O&M, security and bird deterrent activities. Cameras at various locations (e.g., Main and Arimetco gates, entrances to buildings) indicated no activity of concern.
- Wind dancers, bird deterrent flags and Bird Gard towers continued to be deployed around the Pumpback Well System (PWS) Evaporation Pond and the Lined Evaporation Pond (LEP). Balloons remained in place over FMS Evaporation Ponds B and C. Propane cannons remained deployed around the FMS Evaporation Pond A and the Slot Pond. To reduce birds becoming habituated to wind dancers and flags remaining in one location, these devices were re-located as needed, based on observations by Site O&M personnel.
- Water levels in the PWS Evaporation Pond at the end of February were as follows: North Cell = 0.0 feet; Middle Cell = 0.1 feet; South Cell = 0.15 feet. Water in the Pond cells was a result of recent precipitation events.
- Arimetco FMS pond levels: Phase 1 Pond = 4.96 feet; FMS Evaporation Pond A = 9.3 feet; FMS Evaporation Pond B = 3.27 feet; FMS Evaporation Pond C = 3.03 feet; VLT Pond = 13.56 feet; Slot Pond = 15.06 feet. Approximately 168,558 gallons of solution were transferred from the VLT Pond to FMS Evaporation Pond B in February. See attached monitoring data.
- Approximately 20,405 gallons of solution were pumped from the leak detectors in February, including 8,683 gallons from the VLT Pond/Sediment Pond and 10,745 gallons from the Slot Pond. Approximately 41,881 gallons of solution have been pumped from the leak detectors since January 1, 2014. See attached monitoring data.
- The radio communications tower and associated equipment were installed by Desert Engineering and Metro Mobile on February 26-27.

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February 2014 Activities - Continued

Site Characterization Activities

- Monthly groundwater elevation measurements were obtained on February 24-26.
- A pit lake elevation of 4231.33 feet above mean sea level (amsl) was recorded on February 24 from the pressure transducer, an increase of approximately 0.49 feet since January 24. The pit lake level has risen approximately 1.98 feet since February 24, 2013.
- Signed access agreements were received for new wells DW-208 and DW-209. DW-210 was added to the domestic well sampling program. These wells will be initially sampled during the 1Q 2014 event. An access agreement was sent to the owner of DW-68 (this location has been unoccupied since 2010).
- No changes to the Bottled Water Program in occurred in February.
- Continued compiling data for inclusion in the 2013 Annual DWMR and the 2013 Annual GMR.
- Performed the 1Q 2014 groundwater sampling event during the period February 2-18.
- The Additional Monitor Well Installation Work Plan continued with drilling and zonal sampling (14 samples) at the B/W-69 and B/W-81 locations. Monitor wells B/W-27D4, B/W-27D5, B/W-50S, B/W-50D1, B/W-83D1 and B/W-83S were installed. A signed access agreement was received for drilling at the B/W-68 location.
- ARC and EPA discussed the status of access agreements for the installation of off-Site groundwater monitor wells, and actions needed to acquire appropriate access, on February 14.
- Transmitted the Revised Groundwater RI Work Plan - Revision 1, and associated responses to comments, on February 7.
- Continued the preparation of a draft work plan for Single-Step Chemical Extraction (Leach) Tests, which was requested by EPA in Comment #44 on the Revised Groundwater RI Work Plan.
- Continued preparation of the draft report summarizing initial groundwater flow modeling results.
- Transmitted the Process Areas (OU-3) Sub-Surface Utility and Dry Well Investigation Data Summary Report (DSR) on February 12.
- Continued the characterization of Process Area (OU-3) soils. A total of 83 borings were completed in February for a total of 2,771 feet of drilling. A total of 534 Normal samples were collected, and a total of 113 Quality Control samples (field blanks, duplicates, MS/MSD and equipment blanks) were collected.
- Desert Engineering and Tri-State continued drill site prep work and surveying of completed boring locations, respectively.
- Continued the compilation of hydrocarbon chemical data obtained from Process Areas drilling to be used in discussions with NDEP and EPA regarding future step-outs.
- Transmitted hard copies of the Draft Anaconda Evaporation Ponds Supplemental Characterization Work Plan, which was uploaded to the EPA website on January 31.
- Routine database management activities in support of Site investigations and monitoring.

Planned March/April 2014 Activities

Site Security and O&M Activities

- Continue routine Site O&M, security and bird deterrent activities.
- Continue to evaluate the replacement of all propane cannons by safe Wetland Wailer devices.
- Continue to develop protocols for use of the new on-Site radio transmission facilities.
- Transmit a Technical Memorandum for the updated FMS water balance model and associated recommendations for FMS operations in 2014.

Site Characterization Activities

- Continue groundwater elevation and pit lake level measurements, and meteorological monitoring.
- Continue the Bottled Water Program.

Planned March/April 2014 Activities - Continued

Site Characterization Activities - Continued

- Continue to compile 4Q groundwater and domestic well monitoring data for inclusion in the 2013 Annual GMR and DWMR, respectively.
- Conduct the 1Q 2014 domestic well monitoring event, with EPA split sampling, in March.
- Transmit draft Remedial Action Objectives (RAOs) for the Site-Wide Groundwater Operable Unit.
- Transmit the Draft Groundwater Flow Model Report.
- Transmit a Technical Memorandum for the reduction of analytical parameters associated with Site-Wide groundwater monitoring.
- Transmit a Technical Memorandum regarding the use of hydrologic tracers for background groundwater evaluations.
- Continue field work associated with the Additional Monitor Well Work Plan.
- Continue field work associated with the Process Areas Step-Out Drilling Program.
- Review data quality objectives for the Wabuska Drain (OU-7) RI Work Plan when received.

Please contact me at (714) 228-6774 or via e-mail at jack.oman@bp.com if you have any questions or comments about the February 2014 monthly report.

Sincerely,



Jack Oman
Project Manager

Attachment

cc: Dave Seter, EPA – via electronic mail
Harry Ball, EPA – via electronic mail
Andrew Helmlinger, EPA – via electronic mail
Tom Dunkelman, EPA – via electronic mail
Greg Lovato, NDEP – via electronic mail
Jeryl Gardner, NDEP – via electronic mail
Tom Olsen, BLM – via electronic mail
Dan Newell, City of Yerington – via electronic mail
Phyllis Hunewill – via electronic mail
Virgil Arellano, Lyon County Commissioner – via electronic mail
Rob Loveberg, Lyon County Planning Department – via electronic mail
Tom Grady, Nevada State Assembly – via electronic mail
Chairwoman Howard, YPT – via electronic mail
Deborah Dunn, YPT – via electronic mail
Dietrick McGinnis, McGinnis and Associates – via electronic mail
Tom Bowden, Ridolfi, Inc. – via electronic mail
Chairwoman McFalls, WRPT – via electronic mail
Tad Williams, WRPT – via electronic mail
Ron Halsey, Atlantic Richfield Company – via electronic mail
James Lucari, Atlantic Richfield Company – via electronic mail
Marc Ferries, Atlantic Richfield Company – via electronic mail
Brian Johnson, Atlantic Richfield Company – via electronic mail
John Batchelder, EnviroSolve – via electronic mail
Jim Chatham, Atlantic Richfield Company – via electronic mail
Rich Curley, Curley and Associates, LLC – via electronic mail

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Ken Greene, CH2M Hill – via electronic mail
Victor Early, Tetra Tech – via electronic mail
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